## **CLAIM AMENDMENTS:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently amended) A network management system comprising:
- a first connection to a wide area network;
- wherein the first connection is configured to <u>automatically</u> receive management information via a virtual connection from a data communication node;
- wherein the management information includes service level information for a transparent connection between the data communication node and the wide area network, the transparent connection carrying encapsulated data traffic, the management information further including equipment failure information for a bridging node configured to generate the encapsulated data traffic.
- 2. (Currently amended) The network management system as recited in Claim 1, wherein the transparent connection is a Digital Subscriber Line (DSL) connection that carries Frame Relay packets encapsulated according to a DSL protocol, and wherein the management information relates to encapsulated frame relay packets communicated between networks.
- 3. (Original) The network management system as recited in Claim 1, wherein the management information is according to a Simple Network Management Protocol (SNMP).
- 4. (Original) The network management system as recited in Claim 1, wherein the transparent connection is an intermediate network to the wide area network and a local area network.

- 5. (Currently amended) A network management system comprising:
- a data network report collector; and
- a data router having a first interface coupled to a wide area network;
- wherein data <u>automatically</u> collected via the first interface includes management information regarding a service level of a first network for carrying data traffic between a local area network and the wide area network;
- wherein the management information further includes equipment fault information for a bridging node configured to transfer the data traffic to the first network.
- 6. (Canceled).
- 7. (Previously amended) The network management system as recited in Claim 5, wherein the data traffic is communicated between the local area network and the wide area network according to a first protocol and the bridging node encapsulates the data traffic from the local area node according to a second protocol.
- 8. (Original) The network management system as recited in Claim 7, wherein the first protocol is a frame relay type protocol and the second protocol is a Digital Subscriber Line (DSL) protocol.
- 9. (Original) The network management system as recited in Claim 7, wherein a second node de-encapsulates the data traffic and transmits the data traffic to the wide area network.
- 10. (Original) The network management system as recited in Claim 9, wherein the second node is a Digital Subscriber Line Access Multiplexer (DSLAM).

- 11. (Currently amended) A method comprising:
- <u>automatically</u> collecting management information for a transparent connection carrying data traffic;
- using the management information collected to identify equipment failure information; and
- using the management information collected to identify network service provider service level information; and
- wherein the transparent connection is a Digital Subscriber Line (DSL) connection between a local area network and a wide area network.
- 12. (Original) The method as recited in Claim 11, further comprising: presenting the service level information to a customer.
- 13. (Original) The method as recited in Claim 11, further comprising: providing notification of a detected equipment failure.
- 14. (Canceled).
- 15. (Original) The method as recited in Claim 11, wherein the transparent connection is an intermediate network between a local area network and a wide area network.
- 16. (Currently amended) A network management system configured to <u>automatically</u> collect management information for one or more transparent Digital Subscriber Line (DSL) connections carrying encapsulated Frame Relay packets.
- 17. (Original) The network management system of Claim 16, wherein the management information comprises equipment fault information of a DSL bridge and service level information of the one or more transparent DSL connections.
- 18. (Original) The network management system of Claim 16, wherein the one or more DSL connections are each coupled between a DSL bridge and a Digital Subscriber Line Access Multiplexer (DSLAM).

19. (Original) The network management system of Claim 18, wherein the DSL bridge encapsulates Frame Relay packets sent from a Frame Relay transmitter and the DSLAM deencapsulates the Frame Relay packets prior to forwarding the Frame Relay packets to a wide area network.

- 20. (Original) The network management system of Claim 18, wherein the DSLAM encapsulates Frame Relay packets sent from a wide area network and the DSL bridge deencapsulates the Frame Relay packets prior to forwarding the de-encapsulated Frame Relay packets to a Frame Relay receiver.
- 21. (Original) The network management system of Claim 16, wherein the network management system collects the management information via a Frame Relay network.
- 22. (Original) The network management system of Claim 16, wherein the network management system is configured to collect the management information according to a Simple Network Management Protocol (SNMP).
- 23. (Original) The network management system of Claim 16, wherein the network management system is configured to collect the management information via a virtual circuit from a data communication node coupled to at least one of the DSL connections.
- 24. (Original) The network management system of Claim 16, wherein the encapsulated Frame Relay packets are carried on a virtual circuit between a Frame Relay transmitter and a Frame Relay receiver.
- 25. (Original) The network management system of Claim 24, wherein the Frame Relay transmitter and the Frame Relay receiver are implemented as channel service unit/data service units.

26. (Currently amended) A network management system comprising:

a report collector; and

a middleware server configured to <u>automatically</u> collect management information for a transparent Digital Subscriber Line (DSL) connection via a Frame Relay network and configured to forward the collected management information to the report collector.

- 27. (Original) The network management system of Claim 26, wherein the management information comprises customer equipment fault information and service level information of the transparent DSL connection.
- 28. (Original) The network management system of Claim 27, wherein the customer equipment is a DSL bridge that encapsulates Frame Relay packets.
- 29. (Original) The network management system of Claim 26, wherein the report collector is configured to display the management information to a user.
- 30. (Original) The network management system of Claim 26, wherein the management information is used to differentiate between customer equipment failure and a service level agreement violation.
- 31. (Original) The network management system of Claim 26, wherein frame relay packets are transparently encapsulated according to a DSL protocol and sent over the DSL connection.
  - 32. (Original) The network management system of Claim 26, further comprising: a router coupled to the Frame Relay network and the middleware server.

33. (Currently amended) A method comprising:

<u>automatically</u> collecting management information for a transparent Digital Subscriber

Line (DSL) connection carrying encapsulated Frame Relay packets between

Frame Relay data communication nodes; <del>and</del>

differentiating between a network outage caused by customer equipment failure and a service provider service level event using the management information; and providing differentiated management information to a user.

- 34. (Original) The method of Claim 33, wherein the management information comprises equipment fault information of a DSL bridge and service level information of the transparent DSL connection.
- 35. (Original) The method of Claim 33, wherein the management information is collected via a Frame Relay network.
- 36. (Original) The method of Claim 33, wherein the management information is collected via a virtual circuit from one of the Frame Relay data communication nodes, wherein the virtual circuit communicates according to a Frame Relay protocol.
- 37. (Original) The method of Claim 33, wherein at least one of the data communication nodes is implemented as a channel service unit/data service unit.